

EXPLANATION OF CHANGES IN UNDERLYING CONSTRUCTION PERMIT
EXHIBITS

Permit File No. : BPEDT-980219KE

This document is to explain changes in the underlying construction permit application exhibits for construction permit BPEDT-980219KE, specifically relating to Exhibits VD-2C and VD-3 of the application.

Exhibit VD-2C of the application showed the transmission system producing a maximum ERP of 19.88 dBK. This was accomplished by the following:

Transmitter Power	6.99 dBk (5000 watts)
Line loss (6 1/8")	-1.233 dB
V/U coupler loss	-0.1 dB
<u>Antenna Gain</u>	<u>14.21 dB</u> (11.90 dB Main Lobe Gain + 2.3 dB Az. Gain)
Maximum ERP	19.88 dBK

Exhibit VD-3 of the application showed the elevation pattern with a main lobe gain of 11.90 dB. The measured gain from the manufacturer turned out to be 11.46 dB as shown in present exhibit II-AI. Tower structural analysis determined that a 4 1/16" transmission line would need to be used instead of the 6 1/8" line originally planned for. These factors required an increase in transmitter power to obtain the required ERP. The changes are shown as follows:

Transmitter Power	7.80 dBk (6025 watts)
Line loss (4 1/16")	-1.58 dB
V/U coupler loss	-0.1 dB
<u>Antenna Gain</u>	<u>13.76 dB</u> (11.46 dB Main Lobe Gain + 2.3 dB Az. Gain)
Maximum ERP	19.88 dBK

To reiterate, the current facility is transmitting at the authorized ERP. The transmitter output was increased to compensate for greater line loss and lower antenna gain.

EXHIBIT II-A